

DERWENT-ACC-NO: 1983-712303  
DERWENT-WEEK: 198329  
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TITLE: Rotor for electric machine - has layers in laminar  
ring held together  
by edge welds and by projections and recesses

INVENTOR: DUKSTAU, A A; FROLOV, P

PATENT-ASSIGNEE: LENGD ELEKTROSILA [LEELR]

PRIORITY-DATA:  
1981DE-3151965 (December 30, 1981)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
DE 3151965 A	July 14, 1983	N/A
012	N/A	
FR 2519204 A	July 1, 1983	N/A
000	N/A	
JP 58127537 A	July 29, 1983	N/A
000	N/A	

INT-CL (IPC): H02K001/30  
ABSTRACTED-PUB-NO: DE 3151965A

BASIC-ABSTRACT:

The rotor has longitudinal slots on the inside and outside surfaces of its cylindrical ring in order to reduce the rotor's size and amount of material required for a given rigidity. The ring consists of segments forming layers. The longitudinal slots contain welds to connect the layers of the ring together. The segments have impressed recesses on one side forming projections on the other side. The projections belonging to one segment locate in the recesses belonging to an adjacent segment. The recesses and projections fix the segments radially and tangentially hence making clamping

bolts unnecessary.

DERWENT-CLASS: X11

EPI-CODES: X11-J01B;

DERWENT-ACC-NO: 1998-558793  
DERWENT-WEEK: 199923  
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TITLE: Linear motor with toothed block-form line-module -  
has stator teeth  
equipped with coils fixed on respective stator teeth and  
stator laminations  
stack and has prefabricated coils used as phased fraction  
slot windings

INVENTOR: HUTH, G

PATENT-ASSIGNEE: SIEMENS AG [SIEI]

PRIORITY-DATA:  
1997DE-1049609 (November 10, 1997)  
, 1997DE-2023597 (November 10, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
EP 915553 A2	May 12, 1999	G
000	H02K 001/16	
DE 29723597 U1	October 22, 1998	N/A
008	H02K 041/02	

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK N  
L PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
EP 915553A2	N/A	1998EP-0120410
October 28, 1998		
DE29723597U1	Application no.	1997DE-1049609
November 10, 1997		
DE29723597U1	N/A	1997DE-2023597
November 10, 1997		

INT-CL (IPC): B60L013/03; H02K001/16 ; H02K041/02  
ABSTRACTED-PUB-NO: DE29723597U

BASIC-ABSTRACT:

A linear motor includes stator teeth (1) which from separately or combined in blocks, a stator lamination stack. Prefabricated coils are provided used as phased-fraction slot windings degenerated to tooth-coils (2).

The stator teeth are equipped with coils which are fixed on the respective stator teeth and stator laminations stack.

The complete stator lamination stack is assembled from the stator teeth joined mechanically and magnetically in sections. The teeth form, in blocks, an electrically and mechanically independent line-module (8).

ADVANTAGE - Provides stator with modular design, is expandable, simple to manufacture, and suitable for any type of winding.

CHOSEN-DRAWING: Dwg.3/3

DERWENT-CLASS: Q14 V06 X11

EPI-CODES: V06-M06B; V06-M07A; X11-H02; X11-J01A;

CLIPPEDIMAGE= JP410145990A

PAT-NO: JP410145990A

DOCUMENT-IDENTIFIER: JP 10145990 A

TITLE: STATOR IRON CORE OF OUTER ROTOR MOTOR

PUBN-DATE: May 29, 1998

INVENTOR-INFORMATION:

NAME

MATSUDA, ISAO

MIZUNO, YOSHINORI

SATO, SEIJI

ASSIGNEE-INFORMATION:

NAME

MEIDENSHA CORP

COUNTRY

N/A

APPL-NO: JP08302625

APPL-DATE: November 14, 1996

INT-CL (IPC): H02K001/18;H02K001/14

ABSTRACT:

PROBLEM TO BE SOLVED: To facilitate wiring work and increase the occupying percentage of a stator iron core by forming a trapezoidal protrusion at a yoke, forming a trapezoidal groove corresponding to the trapezoidal protrusion at teeth of split structure to the yoke, and pushing and fitting the trapezoidal protrusion into the trapezoidal groove from a narrow groove opening.

SOLUTION: A yoke 1 and a teeth main part 2a are punched together to be formed. A teeth head part 2b is punched separately to be formed, and the teeth main part 2a and the tee head part 2b formed so as to be a separate structure. A trapezoidal groove 2c is formed at the front end of the tee

main part 2a, and a trapezoidal protrusion 2d is formed at the tee head part 2b so as to meet the trapezoidal groove 2c. To press and fit the trapezoidal protrusion in the trapezoidal groove 2c from the narrow groove opening of the trapezoidal protrusion 2d, they are selected so that the trapezoidal groove 2c may get narrower gradually and the trapezoidal protrusion 2d may get thicker gradually. A guide cut surface 2e is formed to facilitate insertion jointing by pressing-in.

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